

Case 351 : Narrative

Case Vehicle (A): 2002 Ford	Vehicle (B): 2002 Ford	Vehicle (C): 1998 Chevrolet
Type: F150 XL Sport, 2-door 4x4 pickup	Type: Ranger Supercab, 4-door pickup	Type: GMT 400, 4x2 2-door truck
Driver: 30-year-old male	Driver: 23-year-old male	Driver: 45-year-old male
CDC: 12-RYES-1, 12-RBES-1, 12-FDEW-5	CDC: 99-0000-0	CDC: 99-0000-0

SITUATION

[1](#) [2](#) On a clear day, case vehicle (A) was traveling west at an unknown speed on a two-lane asphalt east-west road, in a rural area, and was behind vehicles (B) and (C). The roads were dry, it was daylight, and the speed limit was 50 mph (80 kph). Vehicle (X), a utility vehicle, was stopped facing west and was partially off the north side of the road. Vehicles (B) and (C) began slowing to go around vehicle (X) and [3](#) case vehicle (A) crossed the centerline to pass these slowing vehicles but sideswiped the left sides of vehicles (B) and (C). [4](#) Case vehicle (A) continued to travel southwest across the eastbound lane and exited the south edge of the road. [5](#) [6](#) It traveled over a grassy area for approximately 27 meters before the front end struck a [7](#) [8](#) 110-cm diameter tree that was located four meters south of the road edge. The vehicle was towed from the scene due to damage. The police accident report indicates B-level injuries for the driver of case vehicle (A), who was transported to a trauma center by ambulance. The police report indicates O-level injuries for the drivers of vehicle (B) and vehicle (C) and both vehicles were driven from the scene.

GENERAL VEHICLE DAMAGE AND ESTIMATED CRASH SEVERITIES

[9](#) [10](#) The direct damage to the front of case vehicle (A) from the impact with the tree was primarily to the center portion of the front bumper and extended 110 cm across the front. The maximum rearward crush of 118 cm occurred at the center of the front bumper. [11](#) There were minor scratches that extended along the right side from the sideswipe contacts with vehicle (B) and (C).

Using the WinSMASH crash-reconstruction program and c-values measured for [12](#) [13](#) [14](#) [15](#) case vehicle (A), the following impact severity was calculated for the frontal impact with the tree.

		Calculated Velocity Change - kph (mph)		
Vehicle	Variable	Total	Longitudinal	Latitudinal
Case Vehicle (A)	delta V	60 (37)	-60 (-37)	0 (0)

DESCRIPTION OF DAMAGE TO CASE VEHICLE (A)

Exterior

[16](#) [17](#) In the front, the entire front bumper was crushed rearward into the engine compartment, the grille and engine components were severely crushed and damaged, and both headlight assemblies were broken. The hood was crushed and pushed up and to the rear, the hood latch was damaged and jammed, both hood hinges were deformed but not separated, and the rear edge of the hood was elevated. [18](#) [19](#) The entire windshield was cracked and the left portion of the glass was cut and folded down from extrication of the driver. Rearward movement of the cowl and A-pillars caused the front edge of the roof to buckle. [20](#) On the left side, the fender was crumpled rearward into the left-front wheelwell. The left-front wheel was not damaged but the axle was displaced and

the left wheelbase was reduced 30 cm. [21](#) The upper and lower portions of the left A-pillar were deformed and the upper portion was cut to extricate the driver. [22](#) The driver door was deformed and jammed closed and the door glazing was disintegrated, but the door had been opened to extricate the driver. [23](#) The upper and lower portions of the left B-pillar were dented from contact by the truck box that moved forward and up during the frontal impact.

[24](#) There were scratches along the right side from the sideswipe contacts with vehicles (B) and (C). [25](#) The right fender was crushed and the upper and lower portions of the A-pillars were damaged. The right-front wheel rim was bent, the hubcap was broken, the tire was flat, and the right wheelbase was reduced 45 cm, but there was no damage to the right-rear wheel and tire. [26](#) The right-front door was damaged and jammed closed, [27](#) the door window frame was bent out, and the door glazing was disintegrated. [28](#) The upper and lower portions of the B-pillar were damaged from contact by the truck box.

[30 31](#) In the rear, the cab window glass was disintegrated. [29](#) Also, the truck box was displaced forward and up.

Interior

This vehicle was equipped with steering-wheel and dash-mounted frontal-impact airbags. [32](#) The steering-wheel airbag deployed, [33 34](#) but the dash-mounted airbag was turned off and did not deploy. [35](#) There were red transfer marks on the upper portion of the airbag fabric, [36](#) and the lower flap of the airbag module was displaced forward and stuck behind the lower portion of the steering wheel. [37](#) The steering wheel was rotated to the 9 o'clock position [38](#) and the steering column was rotated up and to the left. The upper half of the steering-wheel rim and the left spoke were deflected forward and deformed.

[39](#) The left A-pillar was deformed rearward and had been cut during extrication, but there was no damage to the roof or the roof siderail in the driver area. [40](#) [41](#) There was a mark on the left sunvisor and a hole in the left section of the windshield, but both may have occurred during extrication. [42](#) The upper and mid portions of the instrument panel and knee bolster were damaged and displaced to the rear, [43](#) and there were dents in both sides of the knee bolster. [44](#) The driver section of the toe pan was displaced to the rear and the [45](#) brake, accelerator, and emergency pedals were damaged. [46](#) There was no damage to the driver door but the door glazing was broken. [54](#) The driver seat was pitched forward and the manual seat adjuster was jammed with the seat in a rear-track position.

[47](#) There was no damage to the center section of the roof interior or to the windshield header, and there was no damage to the center rearview mirror. [48](#) The center vertical console was displaced rearward and the center seat console/armrest was bent down and to the right.

[49](#) In the right-front seating area, there was no damage to the roof or to the windshield header, and the A-pillar was slightly deformed. [50](#) The glove compartment was damaged, the glove-box door would not close, and the toe pan was displaced to the rear. There was no damage to the right-front door panel, but the door glazing was shattered. [51](#) The right-front seat was rotated forward and the seat adjuster was jammed with the seat in the rear-track position.

[52](#) [53](#) The following intrusions were noted and measured:

Location	Component	Distance (cm)	Direction
left front	toe pan	35	to rear
	instrument panel	4	to rear
center front	instrument panel	4	to rear
right front	toe pan	25	to rear

OCCUPANT KINEMATICS AND INJURIES

[54](#) The 6-ft, 244-lb, 30-year-old male driver was using the available three-point belt, and the steering-wheel airbag deployed during the frontal impact with the tree. Belt use is clearly indicated by [56](#) [57](#) D-ring marks on the shoulder-belt webbing and [58](#) [59](#) webbing load marks on the D-ring. Also, the belt pretensioner was activated, [60](#) [61](#) the belt was cut and locked in an extended position, [62](#) and the buckle tongue was still in the buckle receptacle at the time of the inspection.

[55](#) The shoulder-belt anchor point on the B-pillar was adjusted to a low position. During the frontal impact, the male driver moved forward relative to the vehicle interior, into the belt restraints, the airbag, and the knee bolster. [63](#) [64](#) He sustained a displaced fracture to the right aspect of the mandibular body, a laceration to the upper lip with swelling of the lips, and loss of consciousness, possibly from contact with the steering wheel through the airbag. He sustained a 1.5-cm laceration under the chin, possibly from contact by the deploying airbag. He sustained a pulmonary contusion to the right lobe of the lungs, probably from chest loading by the shoulder belt. He sustained an abrasion across the abdomen and a perforation of the jejunum, probably from loading by the lap belt. [65](#) [66](#) He sustained contusions to both knees from contact with the knee bolster, as evidenced by dents in the bolster. [67](#) He sustained a comminuted and displaced fracture to the left calcaneus extending into the posterior aspect of the subtalar joint, from foot contact with the toe pan.

The following table and attached drawing [68](#) summarize the injuries for the belt-plus-airbag restrained driver.

Occupant: Driver	Age: 30 years	Gender: Male		
Restraints: 3-point belt, steering-wheel airbag	Stature: 183 cm (6 ft)	Mass: 111 kg (244 lb)		
Injury Description	A.I.S.	Injury Source		
		Definite	Probable	Possible
—	—			
Loss of consciousness	2	—	—	Steering wheel through airbag
Displaced fracture, right aspect of the mandibular body	2	—	—	Steering wheel through airbag
Laceration, upper lip with swelling of the lips	1	—	—	Steering wheel through airbag
1.5-cm laceration, under chin	1	—	—	Airbag
Right pulmonary contusion	3	—	Shoulder belt	—
Abrasion, across the abdomen	1	—	Lap belt	—
Perforation, jejunum	3	—	Lap belt	—
Contusion, left knee	1	Knee bolster	—	—
Contusion, right knee	1	Knee bolster	—	—
Comminuted and displaced fracture, left calcaneus extending into the posterior aspect of the subtalar joint	2	Toe pan	—	—
Maximum A.I.S. Level	3	—	—	—
Injury Severity Score	22	—	—	—

CASE NO.: 351-02

CASE VEHICLE: 2002 Ford

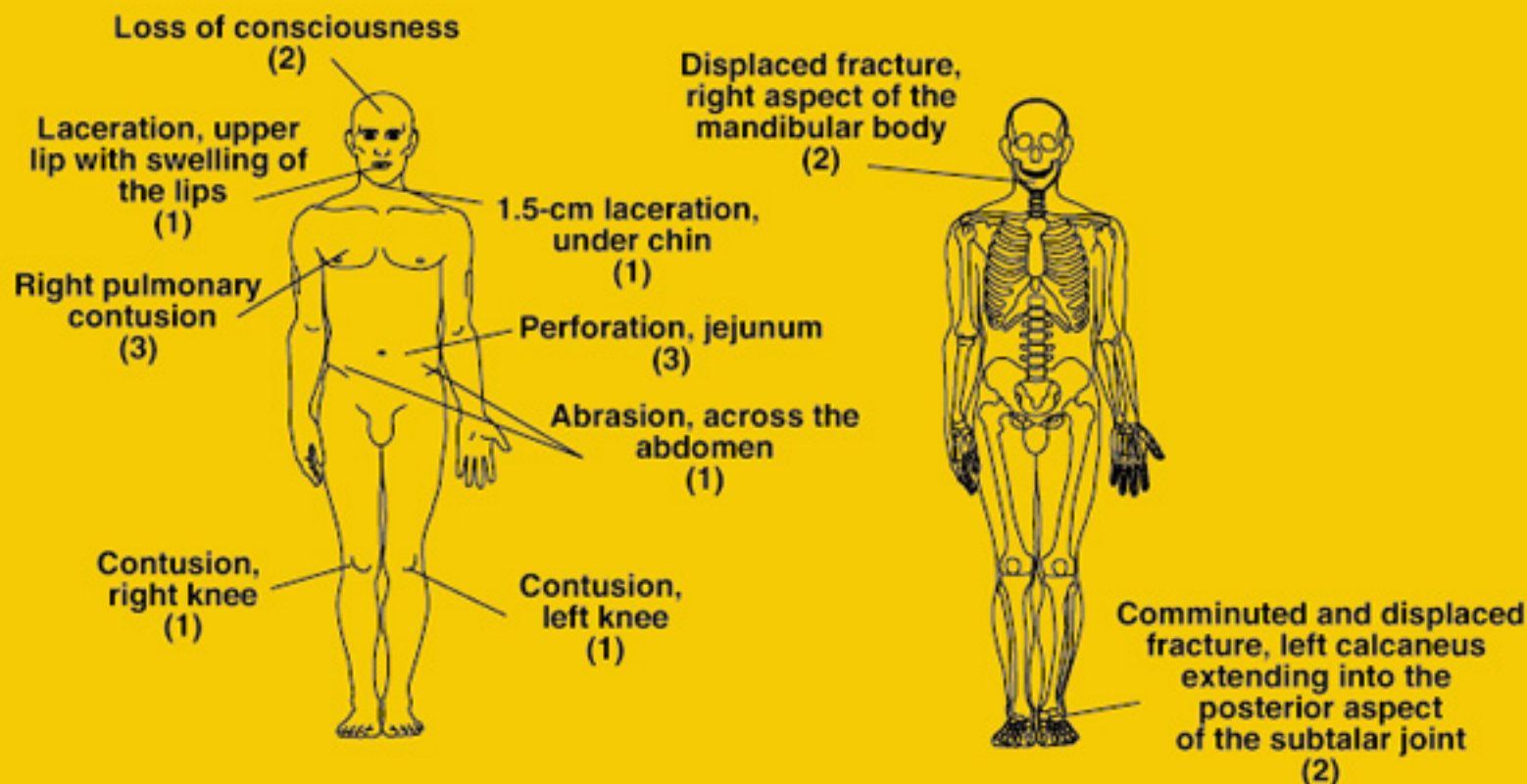
TYPE: F150 XL Sport, 2-door, 4x4 pickup

OCCUPANT: (Driver) 30-year-old male

STATURE: 183 cm (6ft) MASS: 111 kg (244 lb)

RESTRAINTS: Three-point belt, steering-wheel airbag

SEVERITY: MAIS - 3 ISS - 22



Case No.: 351-02

Case Veh. (A): 2002 Ford

Type: F150 XL Sport, 2-door, 4x4 pickup

Driver: 30-year-old male

Vehicle (B): 2002 Ford Ranger, supercab 4x4 pickup

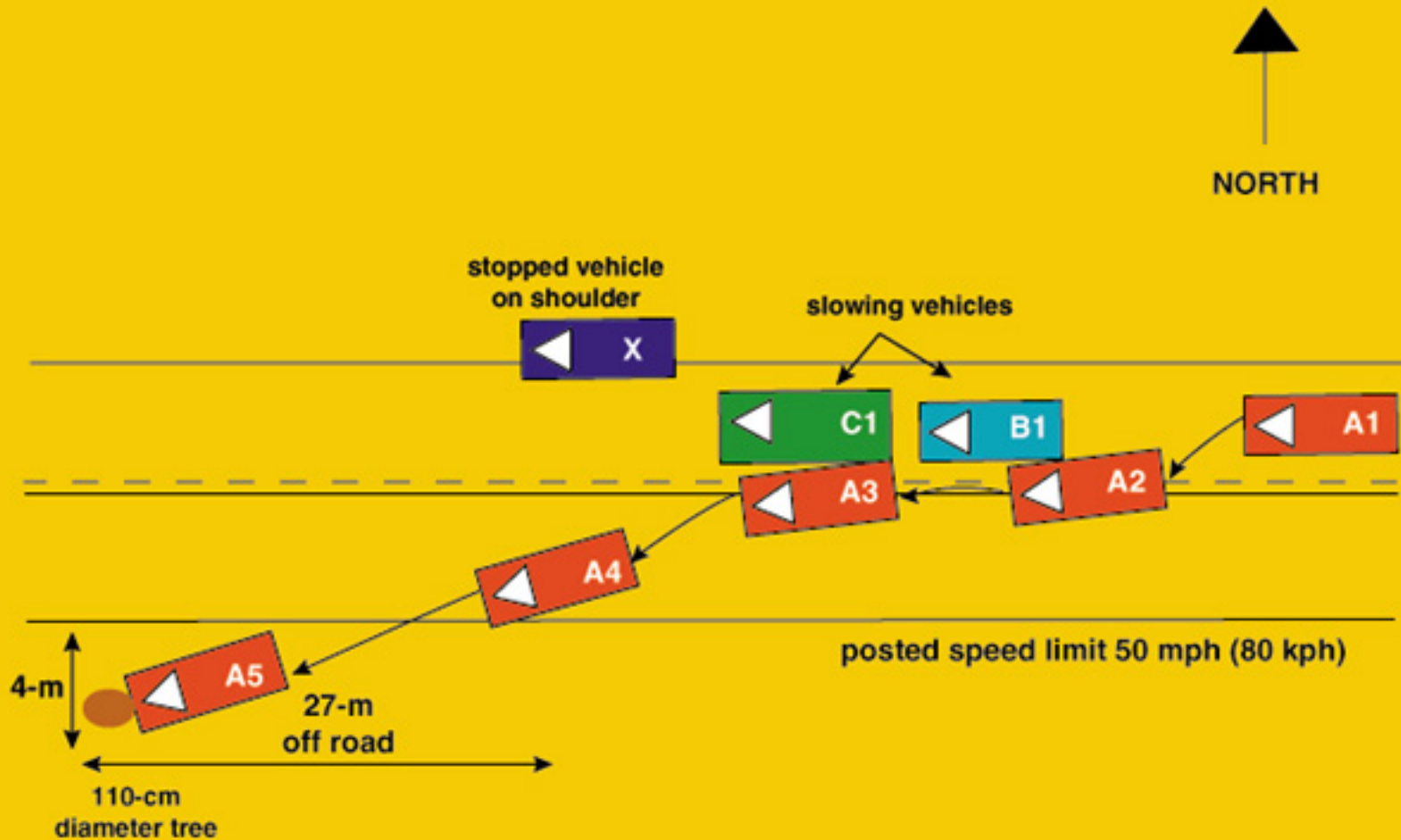
Vehicle (C): 1998 Chevrolet GMT400, truck

Weather: **Clear**

Road Surface: **Dry**

Road Construction: **Asphalt**

Light Condition: **Daylight**



Vehicle Report

General

Conditions

Variable Number and Name	Code Value	Code Description	Other Options
V206 — Urban/Rural Area	2	Rural	more
V207 — Limited Access Highway	0	No	more
V208 — Road Total Lanes	2	2 lanes	more
V209 — Intersecting Road Total Lanes	8	Not applicable	more
V210 — Road Surface Type	1	Asphalt	more
V211 — Road Defects	0	No	more
V212 — Construction Zone	0	No	more
V213 — Road Alignment Vertical Plane	1	Level	more
V214 — Road Alignment Horizontal Plane	1	Straight	more
V215 — Surface Covering	10	Dry	more
V216 — Visibility Limitation	0	None	more
V217 — Visibility Obstruction	0	None	more
V218 — Speed Limit	5	80-85 km/h .. 50 mph	more
V219 — Precipitation Type	0	None	more
V220 — Precipitation Rate	8	Not applicable	more
V221 — Temperature	9	Unknown	more
V222 — Crosswind	9	Unknown	more
V223 — Light Conditions	1	Daylight	more
V224 — Mechanical Malfunction Mention	0	No	more
V225 — Case Vehicle and Object	1	Yes	more

V226 — Case Vehicle Rollover	0	No	more
V227 — Case Vehicle Ran Off Roadway	0	No	more
V228 — Moving Case Vehicle/Contacted Moving Vehicle	1	Yes	more
V229 — Case Vehicle/Contacted Stopped Vehicle	0	No	more
V230 — Stopped Case Vehicle/Contactd Vehicle	0	No	more
V231 — Total Vehicles Hit By Case Vehicle	2	2 vehicles	more
V232 — Any Fire in Crash	0	No	more
V233 — Max Police Severity-PAR	2	B - Non-Incapacitating Injury	more
V234 — Driver Alcohol Involvement	0	Had not been drinking	more
V235 — Driver Alcohol BAC	80	Not tested	more
V236 — Driver Impairment Mention	0	No	more
V237 — Driven/Towed From Scene	2	Towed Due to Damage	more

Other Vehicle

Variable Number and Name	Code Value	Code Description	Other Options
V301 — Other Vehicle VIN	1FT2R45E92PA	—	—
V302 — Other Vehicle Manufacturer/Body Code	12112	—	—
V303 — Other Vehicle Manufacturer	121	Ford	more
V304 — Other Vehicle Body Code	12	Pickup truck (no canopy or shell)	more
V305 — Other Vehicle Make/Model	3120	Ranger R14	more

V306 — Other Vehicle Model Year	2002	—	—
V307 — Other Vehicle Mass	001625 kg	—	—
V308 — Other Vehicle Number	0	No separate report	more
V309 — Other Vehicle Number of Occupants	01	—	—
V310 — Other Vehicle Traveling Speed	999	Unknown	more
V311 — Highest Police Injury Severity	0	0 - No Injury	more
V312 — Other Vehicle Type	12	Pickup truck	more
V313 — Other Vehicle Wheelbase (cm)	320 cm	—	—
V314 — Average Track Width	148 cm	—	—
V315 — Overall Length	516 cm	—	—
V316 — Overall Width (OAW)	178 cm	—	—
V317 — Front Overhang (FOH)	085 cm	—	—
V318 — Rear Overhang (ROH)	111 cm	—	—
V319 — Undeformed End Width (UEW)	999	Unknown	more
V320 — Engine Displacement	4.0 l	—	—
V321 — Engine: Number of Cylinders	06	—	—
V322 — Direct Damage Length (DDL)	999	Unknown	more
V323 — Front-End Overlap % (FEO)	99	Missing or Not applicable	more
V324 — Vehicle Overlap % (VOL)	99	Missing or Not applicable	more

Case Vehicle

General

Variable Number and Name	Code Value	Code Description	Other Options
V401 — VIN	2FTRF18212CA	—	—
V402 — Manufacturer/Body Code	22112	—	—
V403 — Vehicle Manufacturer	221	Ford/Canada	more
V404 — Vehicle Body Code	12	—	—
V405 — Make/Model Code	3108	Flareside, Styleside F150	more
V406 — Model Year	2002	—	—
V407 — Vehicle Mass	001971 kg	—	—
V408 — Odometer Reading	888888	—	—
V409 — Number of Occupants	01	—	—
V410 — Traveling Speed	999	Unknown	more
V411 — Body Type	33	Pickup truck (large)	more
V412 — Stolen Vehicle	8	Not currently collected	more
V413 — Body Structure	1	Body and frame	more
V414 — Transmission Type	1	Automatic	more
V415 — Transmission Lever Location	2	Console	more
V416 — Steering	1	Power	more
V417 — Brakes	1	Power	more
V418 — Brake Type	2	Disc - front wheels	more
V419 — Brake Anti-lock Device	1	Two-wheel	more
V420 — Air Conditioning in Vehicle	8	Not currently collected	more
V421 — Drive Type	3	Four wheel	more
V422 — Dual Rear Wheels	0	No	more

V423 — Original Restraint System Type	3	Airbag	more
V424 — Equipped With Roll Bar	0	No	more
V425 — Roof Type	1	Solid	more
V426 — Wheelbase	305 cm	—	—
V427 — Anti-lacerative Glass	0	None	more
V428 — Average Track Width	165 cm	—	—
V429 — Overall Length	515 cm	—	—
V430 — Overall Width (OAW)	201 cm	—	—
V431 — Front Overhang	100 cm	—	—
V432 — Rear Overhang	110 cm	—	—
V433 — Undeformed End Width (UEW)	170 cm	—	—
V434 — Engine Displacement	4.0 <i>l</i>	—	—
V435 — Engine: Number of Cylinders	06	—	—
V436 — Direct Damage Length (DDL)	110 cm	—	—
V437 — Front End Overlap % (FEO)	99	Missing or Not applicable	more
V438 — Vehicle Overlap % (VOL)	99	Missing or Not applicable	more

Case Vehicle

Damage

Description

Variable Number and Name	Code Value	Code Description	Other Options
V501 — Maximum Crush - Front	118 cm	—	—
V502 — Maximum Crush - Right Side	001 cm	—	—
V503 — Maximum Crush - Rear	000 cm	No crush (or less than 1 cm.)	more
V504 — Maximum Crush - Left Side	000 cm	No crush (or less than 1 cm.)	more
V505 — Maximum Crush - Roof	000 cm	No crush (or less than 1 cm.)	more
V506 — Maximum Crush - Other	000 cm	No crush (or less than 1 cm.)	more
V507 — Are Events In Chronological Order	1	Yes	more
V508 — Event 1 Impact Location	1	On Roadway	more
V509 — Event 1 Impact Configuration	46	RIGHT of case veh - SIDESWIPE by contacted Vehicle	more
V510 — Event 1 Object/Vehicle Contacted	12	Pickup truck	more
V511 — Event 2 Impact Location	1	—	—
V512 — Event 2 Impact Configuration	46	RIGHT of case veh - SIDESWIPE by contacted Vehicle	more
V513 — Event 2 Object/Vehicle Contacted	34	Straight truck	more
V514 — Event 3 Impact Location	4	Outside Roadside right-of-way	more
V515 — Event 3 Impact Configuration	17	FRONT of case veh - object	more

V516 — Event 3 Object/Vehicle Contacted	77	Sign post, utility pole, tree	more
V517 — Event 4 Impact Location	8	No 4th event	more
V518 — Event 4 Impact Configuration	88	No 4th event	more
V519 — Event 4 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V520 — Event 5 Impact Location	8	No 5th event	more
V521 — Event 5 Impact Configuration	88	No 5th event	more
V522 — Event 5 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V523 — Event 6 Impact Location	8	No 6th event	more
V524 — Event 6 Impact Configuration	88	No 6th event	more
V525 — Event 6 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V526 — Event 7 Impact On Road	8	No 7th event	more
V527 — Event 7 Impact Configuration	88	No 7th event	more
V528 — Event 7 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V529 — Primary CDC Case Vehicle -event Number	3	Event 3	more
V530 — Primary CDC Case Vehicle - impact speed	999	Unknown	more
V531 — Primary CDC Case Vehicle - Estimated By	1	Investigator	more
V532 — Primary CDC Case Vehicle -crush	118	—	—
V533 — Primary CDC Case Vehicle -clock #1	12	12 o'clock	more
V534 — Primary CDC Case Vehicle letter 1 #1	06	F - Front	more
V535 — Primary CDC Case Vehicle letter 2 #1	04	D - Distributed (Side or End)	more

V536 — Primary CDC Case Vehicle letter 3 #1	05	E - Everything below belt line	more
V537 — Primary CDC Case Vehicle letter 4 #1	23	W - Wide impact area	more
V538 — Primary CDC Case Vehicle Extent #1	05	Extent 5	more
V539 — Primary CDC Case Vehicle -CDC #1	12FDEW5	—	—
V541 — Primary CDC Case Vehicle letter 1 #2	00	Missing Data/Not applicable	more
V542 — Primary CDC Case Vehicle letter 2 #2	00	Missing Data/Not applicable	more
V543 — Primary CDC Case Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V544 — Primary CDC Case Vehicle letter 4 #2	00	Missing Data/Not applicable	more
V545 — Primary CDC Case Vehicle Extent #2	00	Missing Data/Not applicable	more
V546 — Primary CDC Case Vehicle -CDC #2	9800000	—	—
V547 — Primary CDC Contacted Vehicle - Impact Speed	998	Not Applicable	more
V548 — Primary CDC Contacted Vehicle - Estimated By	1	Investigator	more
V549 — Primary CDC Contacted Vehicle -crush	998	Not Applicable	more
V550 — Primary CDC Contacted Vehicle -clock #1	98	Not Applicable	more
V551 — Primary CDC Contacted Vehicle letter 1 #1	00	Missing Data/Not applicable	more
V552 — Primary CDC Contacted Vehicle letter 2 #1	00	Missing Data/Not applicable	more
V553 — Primary CDC Contacted Vehicle letter 3 #1	00	Missing Data/Not applicable	more
V554 — Primary CDC Contacted Vehicle letter 4 #1	00	Missing Data/Not applicable	more
V555 — Primary CDC Contacted Vehicle Extent #1	00	Missing Data/Not applicable	more

V556 — Primary CDC Contacted Vehicle -CDC #1	9800000	—	—
V558 — Primary CDC Contacted Vehicle letter 1 #2	00	Missing Data/Not applicable	more
V559 — Primary CDC Contacted Vehicle letter 2 #2	00	Missing Data/Not applicable	more
V560 — Primary CDC Contacted Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V561 — Primary CDC Contacted Vehicle letter 4 #2	00	Missing Data/Not applicable	more
V562 — Primary CDC Contacted Vehicle Extent #2	00	Missing Data/Not applicable	more
V563 — Primary CDC Contacted Vehicle -CDC #2	9800000	—	—
V564 — Secondary CDC Case Vehicle - Event No	1	Event 1	more
V565 — Secondary CDC Case Vehicle - Impact Speed	999	Unknown	more
V566 — Secondary CDC Case Vehicle - Estimated By	1	—	—
V567 — Secondary CDC Case Vehicle -crush	001		more
V568 — Secondary CDC Case Vehicle -clock #1	12	12 o'clock	more
V569 — Secondary CDC Case Vehicle letter 1 #1	18	R - Right Side	more
V570 — Secondary CDC Case Vehicle letter 2 #1	25	Y - Side or end (F + P or L + C)	more
V571 — Secondary CDC Case Vehicle letter 3 #1	05	E - Everything below belt line	more
V572 — Secondary CDC Case Vehicle letter 4 #1	19	S - Sideswipe	more
V573 — Secondary CDC Case Vehicle Extent #1	01	Extent 1	more
V574 — Secondary CDC Case Vehicle -CDC #1	12RYES1	—	—
V576 — Secondary CDC Case Vehicle letter 1 #2	00	Missing Data/Not applicable	more
V577 — Secondary CDC Case Vehicle letter 2 #2	00	Missing Data/Not applicable	more

V578 — Secondary CDC Case Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V579 — Secondary CDC Case Vehicle letter 4 #2	00	Missing Data/Not applicable	more
V580 — Secondary CDC Case Vehicle Extent #2	00	Missing Data/Not applicable	more
V581 — Secondary CDC Case Vehicle -CDC #2	9800000	—	—
V582 — Secondary CDC Contacted Vehicle - Impact Speed	999	Unknown	more
V583 — Secondary CDC Contacted Vehicle - Estimated By	1	—	—
V584 — Secondary CDC Contacted Vehicle -crush	999	Unknown	more
V585 — Secondary CDC Contacted Vehicle -clock #1	99	Unknown or no damage	more
V586 — Secondary CDC Contacted Vehicle letter 1 #1	00	Missing Data/Not applicable	more
V587 — Secondary CDC Contacted Vehicle letter 2 #1	00	Missing Data/Not applicable	more
V588 — Secondary CDC Contacted Vehicle letter 3 #1	00	Missing Data/Not applicable	more
V589 — Secondary CDC Contacted Vehicle letter 4 #1	00	Missing Data/Not applicable	more
V590 — Secondary CDC Contacted Vehicle Extent #1	00	Missing Data/Not applicable	more
V591 — Secondary CDC Contacted Vehicle -CDC #1	9900000	—	—
V593 — Secondary CDC Contacted Vehicle letter 1 #2	00	Missing Data/Not applicable	more
V594 — Secondary CDC Contacted Vehicle letter 2 #2	00	Missing Data/Not applicable	more
V595 — Secondary CDC Contacted Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V596 — Secondary CDC Contacted Vehicle letter 4 #2	00	Missing Data/Not applicable	more
V597 — Secondary CDC Contacted Vehicle Extent #2	00	Missing Data/Not applicable	more

V598 — Secondary CDC Contacted Vehicle -CDC #2	9900000	—	—
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Crash Severity

Variable Number and Name	Code Value	Code Description	Other Options
V601 — Case Vehicle Primary Impact Number	3	—	—
V602 — Primary Impact Total Delta-V	060 kph	—	—
V603 — Primary Case Vehicle Reconstructed Longitudinal Delta-V	-060 kph	—	—
V604 — Primary Case Vehicle Reconstructed Lateral Delta-V	0000 kph	—	—
V605 — Primary Case Vehicle Reconstructed Crush Energy	0287 kJ	—	—
V606 — Primary Impact Case Vehicle -reconstruction	21	Reconstructed, low confidence level	more
V607 — Primary Case Vehicle Reconstruction Mode	2	CDC & detailed damage	more
V608 — Primary Contacted Vehicle Reconstructed Total Delta-V	888	N/A	more
V609 — Primary Contacted Vehicle Reconstructed Longitudinal Delta-V	8888	—	—
V610 — Primary Contacted Vehicle Reconstructed Lateral Delta-V	8888	—	—
V611 — Primary Contacted Vehicle Reconstructed Crush Energy	8888	—	—
V612 — Case Vehicle Secondary Impact Number	2	—	—
V613 — Secondary Case Vehicle Reconstructed Total Delta-V	999	Unknown	more

V614 — Secondary Case Vehicle Reconstructed Longitudinal Delta-V	9999	—	—
V615 — Secondary Case Vehicle Reconstructed Lateral Delta-V	9999	—	—
V616 — Secondary Case Vehicle Reconstructed Crush Energy	9999	—	—
V617 — Secondary Case Vehicle Reconstruction Note	08	Skidding sideways	more
V618 — Secondary Case Vehicle Reconstruction Mode	5	Not reconstructed	more
V619 — Secondary Contacted Vehicle Reconstructed Total Delta-V	999	Unknown	more
V620 — Secondary Contacted Vehicle Reconstructed Longitudinal Delta-V	9999	—	—
V621 — Secondary Contacted Vehicle Reconstructed Lateral Delta-V	9999	—	—
V622 — Secondary Contacted Vehicle Reconstructed Crush Energy	9999	—	—
V623 — Case Vehicle Primary Impact Number	3	—	—
V624 — Primary Case Vehicle Reconstructed Total EBS	060 kph	—	—
V625 — Primary Case Vehicle Reconstructed Longitudinal EBS	-060 kph	—	—
V626 — Primary Case Vehicle Reconstructed Lateral EBS	0000 kph	—	—
V627 — Primary Case Vehicle Reconstructed Crush Energy	0287 kJ	—	—
V628 — Primary Case Vehicle Reconstruction Note	21	Reconstructed, low confidence level	more
V629 — Primary Case Vehicle Reconstruction Mode	2	CDC & detailed damage	more
V630 — Primary Contacted Vehicle Reconstruction Total EBS	888	N/A	more
V631 — Primary Contacted	8888	—	—

Vehicle Reconstruction Longitudinal EBS			
V632 — Primary Contacted Vehicle Reconstruction Lateral EBS	8888	—	—
V633 — Primary Contacted Vehicle Reconstruction Crush Energy	8888	—	—
V634 — Case Vehicle Secondary Impact Number	2	—	—
V635 — Secondary Case Vehicle Reconstruction Total EBS	999	Unknown	more
V636 — Secondary Case Vehicle Reconstruction Longitudinal EBS	9999	—	—
V637 — Secondary Case Vehicle Reconstruction Lateral EBS	9999	—	—
V638 — Secondary Case Vehicle Reconstruction Crush Energy	9999	—	—
V639 — Secondary Case Vehicle Reconstruction Note	08	Skidding sideways	more
V640 — Secondary Case Vehicle Reconstruction Mode	5	Not reconstructed	more
V641 — Secondary Contacted Vehicle Reconstruction Total EBS	999	Unknown	more
V642 — Secondary Contacted Vehicle Reconstruction Longitudinal EBS	9999	—	—
V643 — Secondary Contacted Vehicle Reconstruction Lateral EBS	9999	—	—
V644 — Secondary Contacted Vehicle Reconstruction Crush Energy	9999	—	—
V645 — Case Vehicle Reconstructed Impact Number	1	—	—
V646 — Case Vehicle Impact 1 Plane	1	Bumper	more
V647 — Case Vehicle Impact 1 Direct Damage Length [DDL]	110 cm	—	—
V648 — Case Vehicle Impact 1	118 cm	—	—

Max Crush			
V649 — Case Vehicle Impact 1 Field-L	124 cm	—	—
V650 — Case Vehicle Impact 1 C1	009 cm	—	—
V651 — Case Vehicle Impact 1 C2	098 cm	—	—
V652 — Case Vehicle Impact 1 C3	118 cm	—	—
V653 — Case Vehicle Impact 1 C4	118 cm	—	—
V654 — Case Vehicle Impact 1 C5	102 cm	—	—
V655 — Case Vehicle Impact 1 C6	079 cm	—	—
V656 — Case Vehicle Impact 1 +/- D	0000 cm	—	—
V657 — Case Vehicle Reconstructed Impact Number	2	—	—
V658 — Case Vehicle Impact 2 Plane	9	Unknown	more
V659 — Case Vehicle Impact 2 Direct Damage Length [DDL]	999	Unknown	more
V660 — Case Vehicle Impact 2 Max Crush	999	Unknown	more
V661 — Case Vehicle Impact 2 Field-L	999	Unknown	more
V662 — Case Vehicle Impact 2 C1	999	Unknown	more
V663 — Case Vehicle Impact 2 C2	999	Unknown	more
V664 — Case Vehicle Impact 2 C3	999	Unknown	more
V665 — Case Vehicle Impact 2 C4	999	Unknown	more
V666 — Case Vehicle Impact 2 C5	999	Unknown	more
V667 — Case Vehicle Impact 2 C6	999	Unknown	more

V668 — Case Vehicle Impact 2 +/- D	0999 cm	—	—
V669 — Other Vehicle Reconstructed Impact Number	1	—	—
V670 — Other Vehicle Impact 1 Plane	4	Above sill	more
V671 — Other Vehicle Impact 1 Direct Damage Length [DDL]	999	Unknown	more
V672 — Other Vehicle Impact 1 Max Crush	001 cm	—	—
V673 — Other Vehicle Impact 1 Field-L	999	Unknown	more
V674 — Other Vehicle Impact 1 C1	999	Unknown	more
V675 — Other Vehicle Impact 1 C2	999	Unknown	more
V676 — Other Vehicle Impact 1 C3	999	Unknown	more
V677 — Other Vehicle Impact 1 C4	999	Unknown	more
V678 — Other Vehicle Impact 1 C5	999	Unknown	more
V679 — Other Vehicle Impact 1 C6	999	Unknown	more
V680 — Other Vehicle Impact 1 +/- D	0999 cm	—	—
V681 — Other Vehicle Reconstructed Impact Number	2	—	—
V682 — Other Vehicle Impact 2 Plane	8	Not applicable	more
V683 — Other Vehicle Impact 2 Direct Damage Length [DDL]	998	Not applicable	more
V684 — Other Vehicle Impact 2 Max Crush	998	Not applicable	more
V685 — Other Vehicle Impact 2 Field-L	998	Not applicable	more
V686 — Other Vehicle Impact 2 C1	998	Not applicable	more
V687 — Other Vehicle Impact 2 C2	998	Not applicable	more

V688 — Other Vehicle Impact 2 C3	998	Not applicable	more
V689 — Other Vehicle Impact 2 C4	998	Not applicable	more
V690 — Other Vehicle Impact 2 C5	998	Not applicable	more
V691 — Other Vehicle Impact 2 C6	998	Not applicable	more
V692 — Other Vehicle Impact 2 +/- D	9998	—	—

Case Vehicle

Tires & Rims

Variable Number and Name	Code Value	Code Description	Other Options
V701 — Left Front Wheel Damaged	0	No	more
V702 — Right Front Wheel Damaged	1	Yes	more
V703 — Right Rear Wheel Damaged	0	No	more
V704 — Left Rear Wheel Damaged	0	No	more
V705 — Left Front Tire Tread Type	4	All Weather	more
V706 — Right Front Tire Tread Type	4	All Weather	more
V707 — Right Rear Tire Tread Type	4	All Weather	more
V708 — Left Rear Tire Tread Type	4	All Weather	more
V709 — Left Front Carcass Construction	3	Radial	more
V710 — Right Front Carcass Construction	3	Radial	more
V711 — Right Rear Carcass	3	Radial	more

Construction			
V712 — Left Rear Carcass Construction	3	Radial	more
V717 — Left Front Tire Size	P25570R16S	—	—
V718 — Right Front Tire Size	P25570R16S	—	—
V719 — Right Rear Tire Size	P25570R16S	—	—
V720 — Left Rear Tire Size	P25570R16S	—	—

Case Vehicle

Fuel, Tank, Fire

Variable Number and Name	Code Value	Code Description	Other Options
V801 — Propulsive Fuel Type	1	Gasoline	more
V802 — Main Tank Location	322	Within frame/centered laterally - within vertically	more
V803 — Main Filler Cap Location	113	Left of frame laterally - above vertically	more
V804 — Main Tank Material	9	Unknown	more
V805 — Aux Tank Type	8	Not applicable (not equipped)	more
V806 — Aux Tank Location	888	Not applicable (not equipped)	more
V807 — Aux Filler Cap Location	888	Not applicable (not equipped)	more
V808 — Aux Tank Material	8	Not applicable	more
V901 — Fuel Leakage From Crash	0	No	more
V1001 — Fire In Or On Case Vehicle	0	No	more

Case Vehicle

Exterior

Variable Number and Name	Code Value	Code Description	Other Options
V1101 — Hood Latch Released	0	No	more
V1102 — Hood Latch Damaged	1	Yes	more
V1103 — Hood Latch Jammed	1	Yes	more
V1104 — Left Hood Hinge Damaged	1	Yes	more
V1105 — Left Hood Hinge Separated	0	No	more
V1106 — Right Hood Hinge Damaged	1	Yes	more
V1107 — Right Hood Hinge Separated	0	No	more
V1108 — Hood Remained On Vehicle	1	Yes	more
V1109 — Rear Hood Edge Elevated	1	Yes	more
V1110 — Edge Contacted Windshield	1	Yes	more
V1111 — Edge Penetrated Windshield	1	Yes	more
V1112 — Hood Latch Location	1	Front of Vehicle	more
V1113 — Eng/Transmissn Mount Separation	0	No	more
V1114 — Steerng Column Flex Coupling	9	Unknown if equipped	more
V1115 — Steerng Column Coupling Damaged	9	Unknown	more
V1116 — Steerng Column Coupling Separated	9	Unknown	more
V1117 — Eng Comp Telescopng Unit	88	Not collected	more
V1118 — Comp Orig/Telescopd Diff	888	Not collected	more

V1119 — Left Side Body Mount Separation	0	No	more
V1120 — Upper Left A-pillar Separation	4	No separation, but damaged	more
V1121 — Lower Left A-pillar Separation	4	No separation, but damaged	more
V1122 — Upper Left B-pillar Separation	4	No separation, but damaged	more
V1123 — Lower Left B-pillar Separation	4	No separation, but damaged	more
V1124 — Upper Left C-pillar Separation	8	Not applicable (not equipped)	more
V1125 — Lower Left C-pillar Separation	8	Not applicable (not equipped)	more
V1126 — Upper Left D-pillar Separation	8	Not applicable (not equipped)	more
V1127 — Lower Left D-pillar Separation	8	Not applicable (not equipped)	more
V1128 — Left Front Door Opening Cause	1	Hinge area separation	more
V1129 — Left Rear Door Opening Cause	8	Not applicable (no left rear door)	more
V1130 — Left Front Door Jammed Closed	0	No	more
V1131 — Left Rear Door Jammed Closed	8	Not applicable (no left rear door)	more
V1132 — Rear Door Type	0	No door (includes pickups)	more
V1133 — Rear Door Opening Cause	8	Not applicable (no rear door)	more
V1134 — Rear Door Jammed Closed	8	Not applicable (no rear door)	more
V1135 — Luggage Partition Damagd	8	Not applicable	more
V1136 — Spare Tire Status	8	Not collected	more
V1137 — Trailer Hitch Type	3	Bumper and frame (but non-equalizing)	more
V1138 — Trailer Type	0	No trailer	more
V1139 — Right Side Body Mount Separation	0	No	more

V1140 — Upper Right A-pillar Separation	4	No separation, but damaged	more
V1141 — Lower Right A-pillar Separation	4	No separation, but damaged	more
V1142 — Upper Right B-pillar Separation	4	No separation, but damaged	more
V1143 — Lower Right B-pillar Separation	4	No separation, but damaged	more
V1144 — Upper Right C-pillar Separation	8	Not applicable (not equipped)	more
V1145 — Lower Right C-pillar Separation	8	Not applicable (not equipped)	more
V1146 — Upper Right D-pillar Separation	8	Not applicable (not equipped)	more
V1147 — Lower Right D-pillar Separation	8	Not applicable (not equipped)	more
V1148 — Right Front Door Opening Cause	00	Door did not open	more
V1149 — Right Rear Door Opening Cause	98	Not applicable (no right rear door)	more
V1150 — Right Front Door Jammed Closed	1	Yes	more
V1151 — Right Rear Door Jammed Closed	8	Not applicable (no right rear door)	more
V1152 — Van Rear Door Type	8	Not applicable (not a van)	more
V1153 — Windshield Cracked		Yes	more
V1154 — Windshield Broken	1	Yes	more
V1155 — Windshield Cracked or Broken by Occupant	0	No	more
V1156 — Bond Separation Extent	1	1 - 20%	more
V1157 — Windshield Code		—	—
V1158 — Did Sun/T Roof Open	8	Not Applicable	more

Case Vehicle

Steering

Column/Rim

Variable Number and Name	Code Value	Code Description	Other Options
V1201 — Steering Wheel Rim Damage	2	Severely bent	more
V1202 — Number of Steering Wheel Spokes	2	2 spokes	more
V1203 — Steering Wheel Spoke Damage	2	Severely bent	more
V1204 — Column Tilt Feature	1	Yes, equipped (position unknown)	more
V1205 — Column Swing-away Feature	0	Not equipped	more
V1206 — Column Telescoping Feature	0	Not equipped	more
V1207 — Wheel Energy Absorb Device	8	Not collected	more
V1208 — Wheel Ea Orig/Damaged Diff	888	Not collected	more
V1209 — Column Energy Absorb Device	88	Not collected	more
V1210 — Column Ea Orig/Comprss Diff	888	Not collected	more
V1211 — Shear Capsule Separation	888	Not collected	more
V1212 — Column Vertical Rotation	1	Upward apparent rotation	more
V1213 — Column Lateral Rotation	1	Left apparent rotation	more
V1214 — Steering Wheel Hub Damage	0	None	more

Case Vehicle

Intrusion

Variable Number and Name	Code Value	Code Description	Other Options
V1301 — Occupant Compartment Intrusion	1	Yes	more
V1302 — Was Intrusion Catastrophic	0	No	more
V1303 — Intrusion Number 01	01	Intrusion #1	more
V1304 — Intrusion 01 Occupant Space Number	11	First row, Left seat	more
V1305 — Intrusion 01 Intruding Object	03	Toe pan	more
V1306 — Intrusion 01 Assoc Event Number	3	Event #3	more
V1307 — Intrusion 01 Max Intrusion X-axis	35 cm	—	—
V1308 — Intrusion 01 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1309 — Intrusion 01 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1310 — Intrusion 01 Occupant Number	01	Occupant number 1, contact	more
V1311 — Intrusion 01 Injury Number	10	Injury #10	more
V1312 — Intrusion 01 Occupant Number	00	No contact or no intrusion	more
V1313 — Intrusion 01 Injury Number	00	No injury or no intrusion	more
V1314 — Intrusion Number 02	02	Intrusion #2	more
V1315 — Intrusion 02 Occupant Space Number	11	First row, Left seat	more
V1316 — Intrusion 02 Intruding Object	01	Instrument panel	more
V1317 — Intrusion 02 Assoc Event Number	3	Event #3	more

V1318 — Intrusion 02 Max Intrusion X-axis	04 cm	—	—
V1319 — Intrusion 02 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1320 — Intrusion 02 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1321 — Intrusion 02 Occupant Number	00	No contact or no intrusion	more
V1322 — Intrusion 02 Injury Number	00	No injury or no intrusion	more
V1323 — Intrusion 02 Occupant Number	00	No contact or no intrusion	more
V1324 — Intrusion 02 Injury Number	00	No injury or no intrusion	more
V1325 — Intrusion Number 03	03	Intrusion #3	more
V1326 — Intrusion 03 Occupant Space Number	12	First row, Center seat	more
V1327 — Intrusion 03 Intruding Object	01	Instrument panel	more
V1328 — Intrusion 03 Assoc Event Number	3	Event #3	more
V1329 — Intrusion 03 Max Intrusion X-axis	04 cm	—	—
V1330 — Intrusion 03 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1331 — Intrusion 03 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1332 — Intrusion 03 Occupant Number	00	No contact or no intrusion	more
V1333 — Intrusion 03 Injury Number	00	No injury or no intrusion	more
V1334 — Intrusion 03 Occupant Number	00	No contact or no intrusion	more
V1335 — Intrusion 03 Injury Number	00	No injury or no intrusion	more
V1336 — Intrusion Number 04	04	Intrusion #4	more
V1337 — Intrusion 04 Occupant Space Number	13	First row, Right seat	more
V1338 — Intrusion 04	03	Toe pan	more

Intruding Object			
V1339 — Intrusion 04 Assoc Event Number	3	Event #3	more
V1340 — Intrusion 04 Max Intrusion X-axis	25 cm	—	—
V1341 — Intrusion 04 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1342 — Intrusion 04 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1343 — Intrusion 04 Occupant Number	00	No contact or no intrusion	more
V1344 — Intrusion 04 Injury Number	00	No injury or no intrusion	more
V1345 — Intrusion 04 Occupant Number	00	No contact or no intrusion	more
V1346 — Intrusion 04 Injury Number	00	No injury or no intrusion	more
V1347 — Intrusion Number 05	00	No Intrusion, None	more
V1348 — Intrusion 05 Occupant Space Number	00	No Intrusion, None	more
V1349 — Intrusion 05 Intruding Object	00	No Intrusion, None	more
V1350 — Intrusion 05 Assoc Event Number	0	No Intrusion, None	more
V1351 — Intrusion 05 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1352 — Intrusion 05 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1353 — Intrusion 05 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1354 — Intrusion 05 Occupant Number	00	No contact or no intrusion	more
V1355 — Intrusion 05 Injury Number	00	No injury or no intrusion	more
V1356 — Intrusion 05 Occupant Number	00	No contact or no intrusion	more
V1357 — Intrusion 05 Injury Number	99	Contact, injury unknown or data not collected	more
V1358 — Intrusion Number 06	00	No Intrusion, None	more

V1359 — Intrusion 06 Occupant Space Number	00	No Intrusion, None	more
V1360 — Intrusion 06 Intruding Object	00	No Intrusion, None	more
V1361 — Intrusion 06 Assoc Event Number	0	No Intrusion, None	more
V1362 — Intrusion 06 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1363 — Intrusion 06 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1364 — Intrusion 06 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1365 — Intrusion 06 Occupant Number	00	No contact or no intrusion	more
V1366 — Intrusion 06 Injury Number	00	No injury or no intrusion	more
V1367 — Intrusion 06 Occupant Number	00	No contact or no intrusion	more
V1368 — Intrusion 06 Injury Number	99	Contact, injury unknown or data not collected	more
V1369 — Intrusion Number 07	00	No Intrusion, None	more
V1370 — Intrusion 07 Occupant Space Number	00	No Intrusion, None	more
V1371 — Intrusion 07 Intruding Object	00	No Intrusion, None	more
V1372 — Intrusion 07 Assoc Event Number	0	No Intrusion, None	more
V1373 — Intrusion 07 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1374 — Intrusion 07 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1375 — Intrusion 07 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1376 — Intrusion 07 Occupant Number	00	No contact or no intrusion	more
V1377 — Intrusion 07 Injury Number	00	No injury or no intrusion	more
V1378 — Intrusion 07 Occupant Number	00	No contact or no intrusion	more

V1379 — Intrusion 07 Injury Number	99	Contact, injury unknown or data not collected	more
V1380 — Intrusion Number 08	00	No Intrusion, None	more
V1381 — Intrusion 08 Occupant Space Number	00	No Intrusion, None	more
V1382 — Intrusion 08 Intruding Object	00	No Intrusion, None	more
V1383 — Intrusion 08 Assoc Event Number	0	No Intrusion, None	more
V1384 — Intrusion 08 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1385 — Intrusion 08 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1386 — Intrusion 08 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1387 — Intrusion 08 Occupant Number	00	No contact or no intrusion	more
V1388 — Intrusion 08 Injury Number	00	No injury or no intrusion	more
V1389 — Intrusion 08 Occupant Number	00	No contact or no intrusion	more
V1390 — Intrusion 08 Injury Number	99	Contact, injury unknown or data not collected	more
V1391 — Intrusion Number 09	00	No Intrusion, None	more
V1392 — Intrusion 09 Occupant Space Number	00	No Intrusion, None	more
V1393 — Intrusion 09 Intruding Object	00	No Intrusion, None	more
V1394 — Intrusion 09 Assoc Event Number	0	No Intrusion, None	more
V1395 — Intrusion 09 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1396 — Intrusion 09 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1397 — Intrusion 09 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1398 — Intrusion 09 Occupant Number	00	No contact or no intrusion	more
V1399 — Intrusion 09 Injury	00	No injury or no intrusion	more

Number			
V1400 — Intrusion 09 Occupant Number	00	No contact or no intrusion	more
V1401 — Intrusion 09 Injury Number	99	Contact, injury unknown or data not collected	more
V1402 — Intrusion Number 10	00	No Intrusion, None	more
V1403 — Intrusion 10 Occupant Space Number	00	No Intrusion, None	more
V1404 — Intrusion 10 Intruding Object	00	No Intrusion, None	more
V1405 — Intrusion 10 Assoc Event Number	0	No Intrusion, None	more
V1406 — Intrusion 10 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1407 — Intrusion 10 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1408 — Intrusion 10 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1409 — Intrusion 10 Occupant Number	00	No contact or no intrusion	more
V1410 — Intrusion 10 Injury Number	00	No injury or no intrusion	more
V1411 — Intrusion 10 Occupant Number	00	No contact or no intrusion	more
V1412 — Intrusion 10 Injury Number	99	Contact, injury unknown or data not collected	more
V1413 — Door Intrusion Number 01	88	Not Applicable	more
V1414 — Door Intrusion Number 01 Cause	8	Not applicable	more
V1415 — Door Intrusion Number 02	88	Not Applicable	more
V1416 — Door Intrusion Number 02 Cause	8	Not applicable	more
V1417 — Door Intrusion Number 03	88	Not Applicable	more
V1418 — Door Intrusion Number 03 Cause	8	Not applicable	more
V1419 — Door Intrusion 01	88	Not Applicable	more

Component			
V1420 — Door Intrusion 01 Component Damaged 1	8	Not Applicable	more
V1421 — Door Intrusion 01 Component Damaged 2	8	Not Applicable	more
V1422 — Door Intrusion 02 Component	88	Not Applicable	more
V1423 — Door Intrusion 02 Component Damaged 1	8	Not Applicable	more
V1424 — Door Intrusion 02 Component Damaged 2	8	Not Applicable	more
V1425 — Door Intrusion 03 Component	88	Not Applicable	more
V1426 — Door Intrusion 03 Component Damaged 1	8	Not Applicable	more
V1427 — Door Intrusion 03 Component Damaged 2	8	Not Applicable	more
V1428 — Door Intrusion 04 Component	88	Not Applicable	more
V1429 — Door Intrusion 04 Component Damaged 1	8	Not Applicable	more
V1430 — Door Intrusion 04 Component Damaged 2	8	Not Applicable	more

Case Vehicle

Airbag(s)

Variable Number and Name	Code Value	Code Description	Other Options
V1501 — Driver Airbag Equipped	1	Yes	more
V1502 — Driver Airbag Deployed	1	Yes	more
V1503 — Driver Airbag Condition	0	No Damage	more
V1504 — Passenger Airbag Equip	1	Yes	more
V1505 — Passenger Airbag Deployed	0	No	more
V1506 — Passenger Airbag Condition	8	Not Applicable (not equipped/not deployed)	more
V1507 — Steering Wheel Airbag Tether	1	Yes	more
V1508 — Driver Airbag Marked By Contact	1	Yes	more
V1509 — Passenger Airbag Tether	7	Unknown if tethered	more
V1510 — Passenger Airbag Marked By Contact	8	Not applicable (no airbag, not equipped, not deployed)	more

Case Vehicle

Interior

Variable Number and Name	Code Value	Code Description	Other Options
V1601 — Left Front Door Damaged	0	No	more
V1602 — Right Front Door Damaged	0	No	more
V1603 — Left Front Hardware Damaged	0	No	more
V1604 — Right Front Hardware Damaged	0	No	more
V1605 — Left Front Armrest Damaged	0	No	more
V1606 — Right Front Armrest Damaged	0	No	more
V1607 — Left Front Glass Damaged	1	Yes	more
V1608 — Right Front Glass Damaged	1	Yes	more
V1609 — Left Rear Door Area Damaged	8	Not applicable	more
V1610 — Right Rear Door Area Damaged	8	Not applicable	more
V1611 — Left Rear Hardware Damaged	8	Not applicable	more
V1612 — Right Rear Hardware Damaged	8	Not applicable	more
V1613 — Left Rear Armrest Damaged	8	Not applicable	more
V1614 — Right Rear Armrest Damaged	8	Not applicable	more
V1615 — Left Rear Glass Damaged	0	No	more
V1616 — Right Rear Glass Damaged	0	No	more
V1617 — Left Roof Side Rail Damaged	0	No	more
V1618 — Right Roof Side Rail Damaged	0	No	more
V1619 — Left B-pillar Damaged	0	No	more

V1620 — Right B-pillar Damaged	0	No	more
V1621 — Left C-pillar Damaged	8	Not applicable	more
V1622 — Right C-pillar Damaged	8	Not applicable	more
V1623 — Left D-pillar Damaged	8	Not applicable	more
V1624 — Right D-pillar Damaged	8	Not applicable	more
V1625 — Left Headlining Damaged	0	No	more
V1626 — Right Headlining Damaged	0	No	more
V1627 — Left Roof Structure Damaged	0	No	more
V1628 — Right Roof Structure Damaged	0	No	more
V1629 — Left T/Sun Roof Damaged	8	Not applicable	more
V1630 — Right T/Sun Roof Damaged	8	Not applicable	more
V1631 — Other Left Side Item Damagd	8	Not applicable	more
V1632 — Other Right Side Item Damagd	8	Not applicable	more
V1633 — Foot Controls Damaged	1	Yes	more
V1634 — Ignition Key Damaged	0	No	more
V1635 — Rear View Mirror Damaged	0	No	more
V1636 — Sunvisor/Fitting Damaged	5	Left side only	more
V1637 — Windshield Molding Damaged	0	No	more
V1638 — Left A-pillar Damaged	1	Yes	more
V1639 — Right A-pillar Damaged	1	Yes	more
V1640 — Center Console Damaged	1	Yes	more
V1641 — Transmission Lever Damaged	1	Yes	more
V1642 — Horn/Spoke Shroud Damagd	1	Yes	more
V1643 — Upper Panel Damaged	1	Yes	more
V1644 — Mid Panel Damaged	1	Yes	more
V1645 — Lower Panel Damaged	4	Yes, occupant contact	more

V1646 — Ashtray Damaged	0	No	more
V1647 — Control Knob/Lever Damaged	0	No	more
V1648 — Glove Compartment Area Damaged	0	No	more
V1649 — Instruments Damaged	0	No	more
V1650 — Park Brake Release Damaged	0	No	more
V1651 — Park Brake Pedal Damaged	1	Yes	more
V1652 — A/C Or Upper Vent Damaged	0	No	more
V1653 — Heater Or A/C Duct Damaged	0	No	more
V1654 — Radio Damaged	0	No	more
V1655 — Other Item Damaged	8	Not applicable	more
V1656 — Rear Window Damaged	1	Yes	more
V1657 — Rear Window Header Damaged	0	No	more
V1658 — Vertical Console Damaged	0	No	more
V1659 — Roof Console Damaged	8	Not applicable	more

Case Vehicle Seats

Variable Number and Name	Code Value	Code Description	Other Options
V1701 — Driver Front Seat Type	05	Bucket	more
V1702 — Passenger Front Seat Type	05	Bucket	more
V1703 — Driver Seat Mount Type	1	Standard	more
V1704 — Passenger Seat Mount Type	1	Standard	more
V1705 — Driver Swivel Mechanism Equipped	0	No	more
V1706 — Passenger Swivel Mechanism Equipped	0	No	more
V1707 — Driver Seat Original Equipment	1	Yes	more
V1708 — Passenger Seat Original Equipment	1	Yes	more
V1709 — Driver Seat/Rear Occupant Contact	8	Not applicable	more
V1710 — Passenger Seat/Rear Occupant Contact	8	Not applicable	more
V1711 — Driver Seat Damage	0	None	more
V1712 — Passenger Seat Damage	0	None	more
V1713 — Center Front Armrest Damaged	1	Yes	more
V1714 — Driver Seat Rotation	1	Forward apparent	more
V1715 — Passenger Seat Rotation	1	Forward apparent	more
V1716 — Driver Seat-back Type	1	Forward folding	more
V1717 — Passenger Seat-back Type	1	Forward folding	more

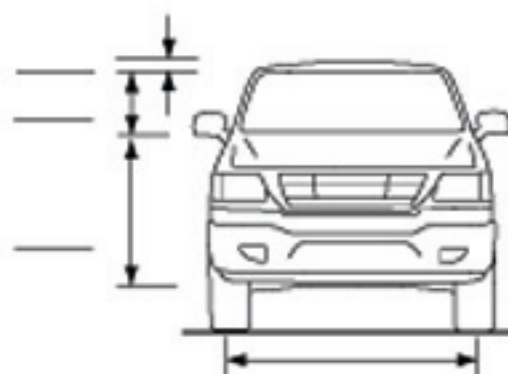
V1718 — Driver Seat-back Lock Type	1	Manual	more
V1719 — Passenger Seat-back Lock Type	1	Manual	more
V1720 — Driver Seat-back Lock Held	1	Yes	more
V1721 — Passenger Seat-back Lock Held	1	Yes	more
V1722 — Driver Recliner Mechanism Held	1	Yes	more
V1723 — Passenger Recliner Mechanism Held	1	Yes	more
V1724 — Driver Head Restraint Type	2	Integral	more
V1725 — Passenger Head Restraint Type	2	Integral	more
V1726 — Driver Head Rest Removed	8	Not applicable	more
V1727 — Passenger Head Rest Removed	8	Not applicable	more
V1728 — Driver Head Rest Adjustment	8	Not applicable	more
V1729 — Passenger Head Rest Adjustment	8	Not applicable	more
V1730 — Driver Head Rest Damage	0	None	more
V1731 — Passenger Head Rest Damage	0	None	more
V1732 — Driver Seat Adjustment Type	1	Manual	more
V1733 — Passenger Seat Adjustment Type	1	Manual	more
V1734 — Driver Seat Adjustment Provided	1	2-way	more
V1735 — Passenger Seat Adjustment Provided	1	2-way	more
V1736 — Driver Seat Adjuster Damage	2	Deformed (released/jammed)	more
V1737 — Passenger Seat Adjuster Damage	2	Deformed (released/jammed)	more

V1738 — Driver Seat Adjuster Separation	0	None	more
V1739 — Passenger Seat Adjuster Separation	0	None	more
V1740 — Driver Seat Pre-crash Position	9	Unknown	more
V1741 — Passenger Seat Pre-crash Position	9	Unknown	more
V1742 — Left Rear Seat Type	0	None	more
V1743 — Right Rear Seat Type	0	None	more
V1744 — Left Rear Seat Damaged	8	Not applicable	more
V1745 — Right Rear Seat Damaged	8	Not applicable	more
V1746 — Center Rear Armrest Damaged	8	Not applicable (No Center Armrest)	more
V1747 — Left Rear Seat-back Left Lock Equipped	8	Not applicable	more
V1748 — Right Rear Seat-back Left Lock Equipped	8	Not applicable	more
V1749 — Left Rear Seat-back Left Lock Held	8	Not applicable	more
V1750 — Right Rear Seat-back Left Lock Held	8	Not applicable	more
V1751 — Left Rear Seat-back Right Lock Equipped	8	Not applicable	more
V1752 — Right Rear Seat-back Right Lock Equipped	8	Not applicable	more
V1753 — Left Rear Seat-back Right Lock Held	8	Not applicable	more
V1754 — Right Rear Seat-back Right Lock Held	8	Not applicable	more
V1755 — Left 3rd Seat Equipped	0	No	more
V1756 — Right 3rd Seat Equipped	0	No	more
V1757 — Left 3rd Seat Backrest Damaged	8	Not applicable	more

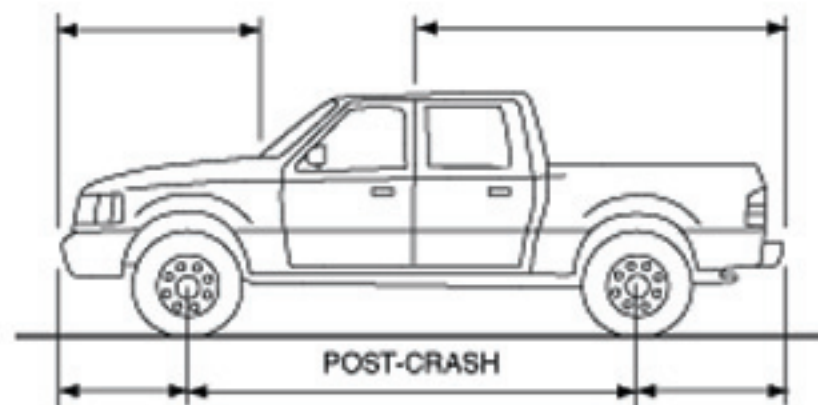
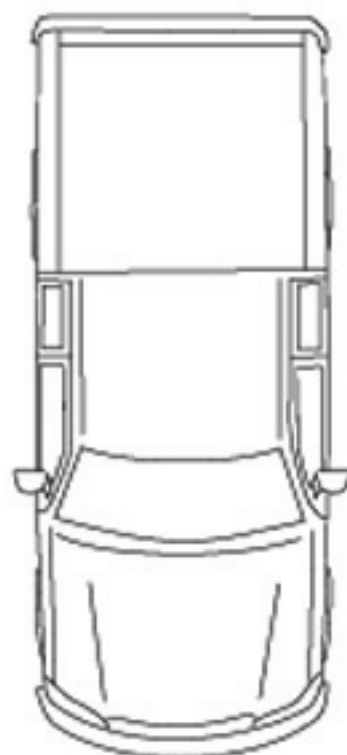
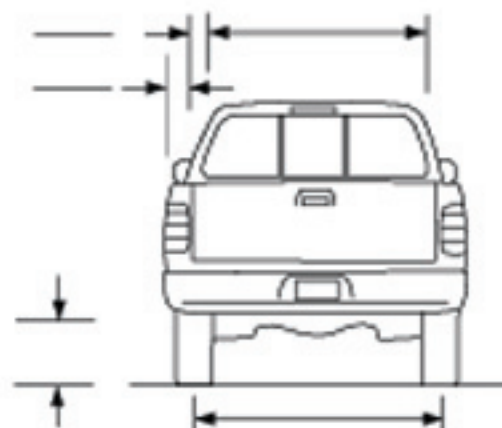
V1758 — Right 3rd Seat Backrest Damaged	8	Not applicable	more
V1759 — Left 3rd Seat Cushion Damaged	8	Not applicable	more
V1760 — Right 3rd Seat Cushion Damaged	8	Not applicable	more
V1761 — Rear Head Restraints	8	Not Applicable (no rear seat)	more

MEASUREMENTS IN CENTIMETERS

No Inspection

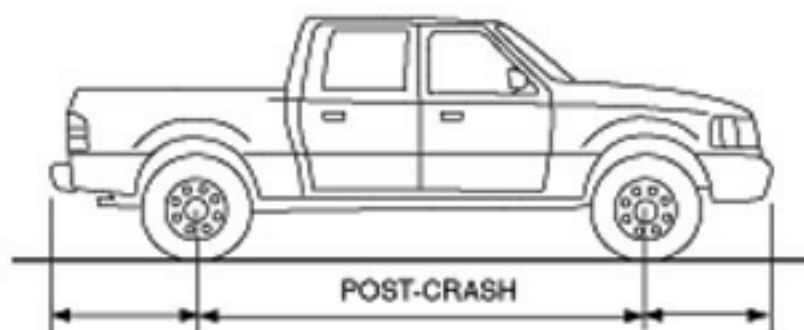


Original
Bumper Height



Bumper corner _____
Stringline _____

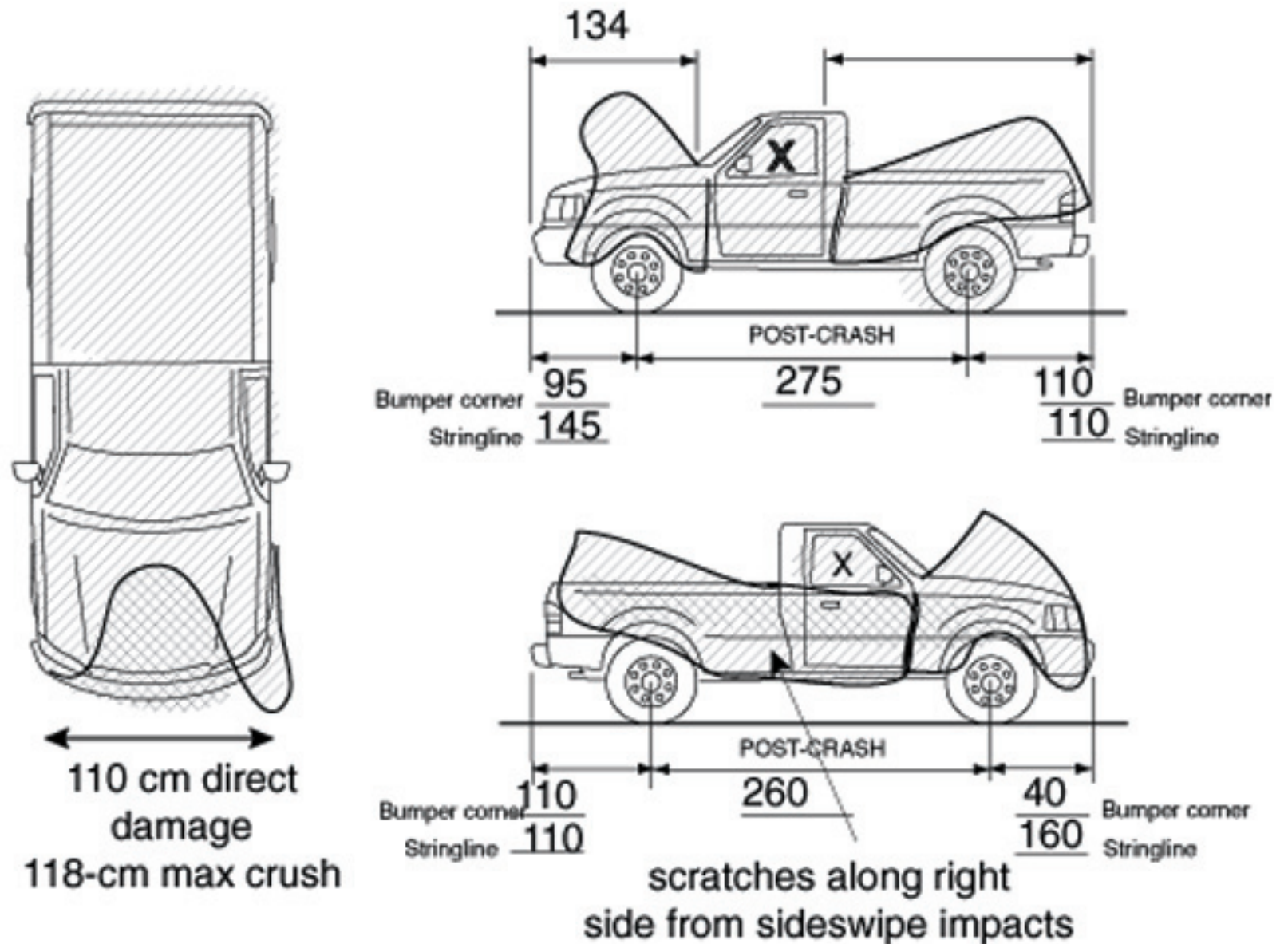
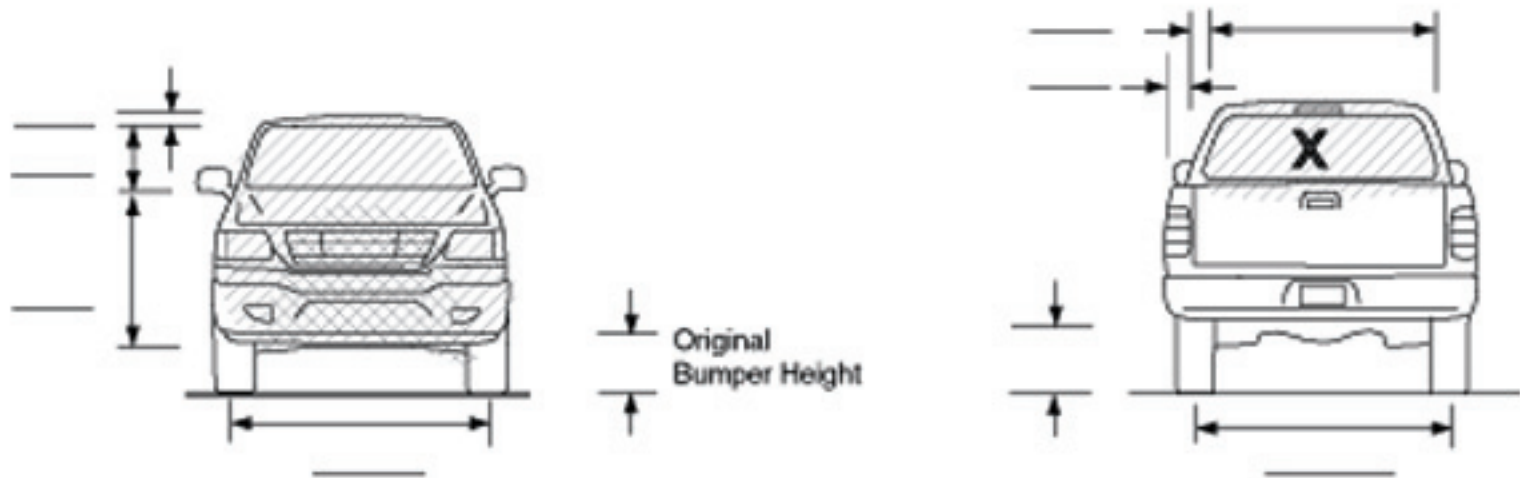
_____ Bumper corner
_____ Stringline



Bumper corner _____
Stringline _____

_____ Bumper corner
_____ Stringline

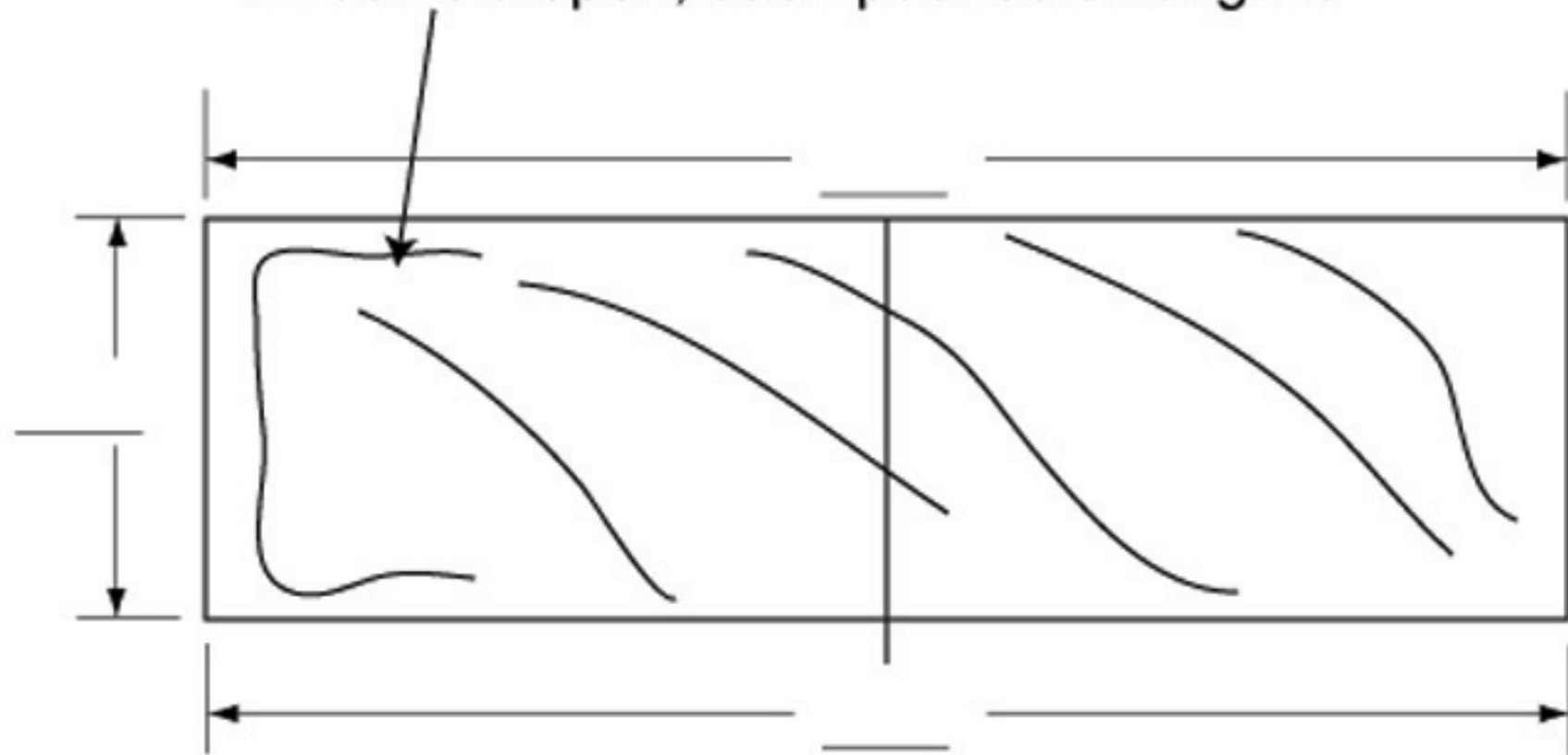
MEASUREMENTS IN CENTIMETERS



WINDSHIELD MARK ON CASE VEHICLE:

Unknown

windshield open, dash pushed through it



1 = Definitely 2 = Probably 3 = Possible

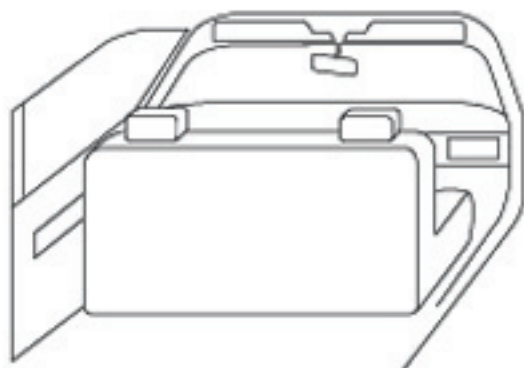
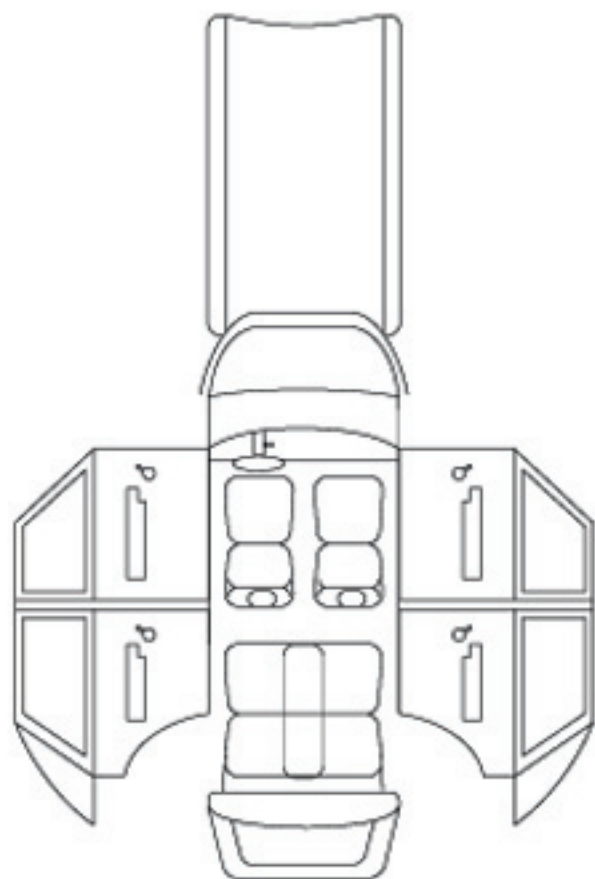
INTRUSION IT-1

Location of Intrusion	Intruded Component	(All Measurements Are in Centimeters)			Dominant Crush Direction
		Comparison Value	– Intruded Value	= Intrusion	
11	Toe pan		–	= 35	To rear
11	Instrument panel		–	= 4	To rear
12	Instrument panel		–	= 4	To rear
13	Toe pan		–	= 25	To rear
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	

OCCUPANT CONTACT WORKSHEET

Contact	Interior Component Contacted	Occupant No. if Known	Body Region if Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	Steering wheel	1	face	Deformation	1
B	Knee bolster-left	1	Knee	Dent	1
C	Knee bolster-right	1	Knee	Dent	1
D	Airbag	1	Face	Marks	1
E					
F					
G					
H					
I					

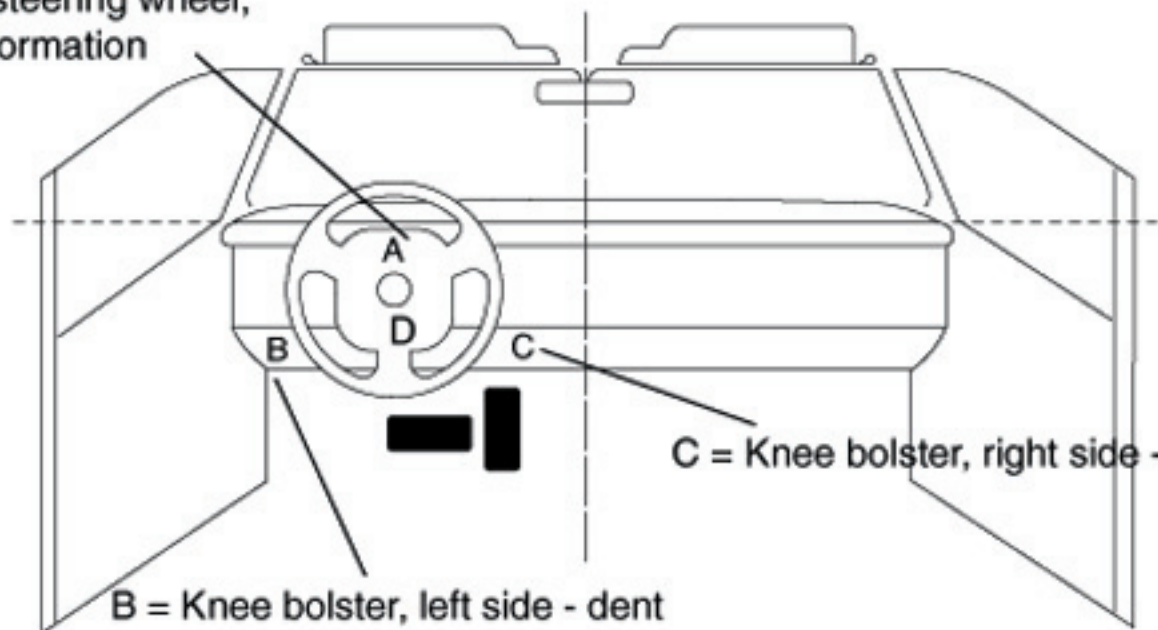
steering wheel positioned at 9:00



evidence of driver belt use:
belt webbing is cut, latch in buckle,
deep scratches on D-ring, pretensioner
fired, transfer marks on webbing from
D-ring

D: airbag, black marks

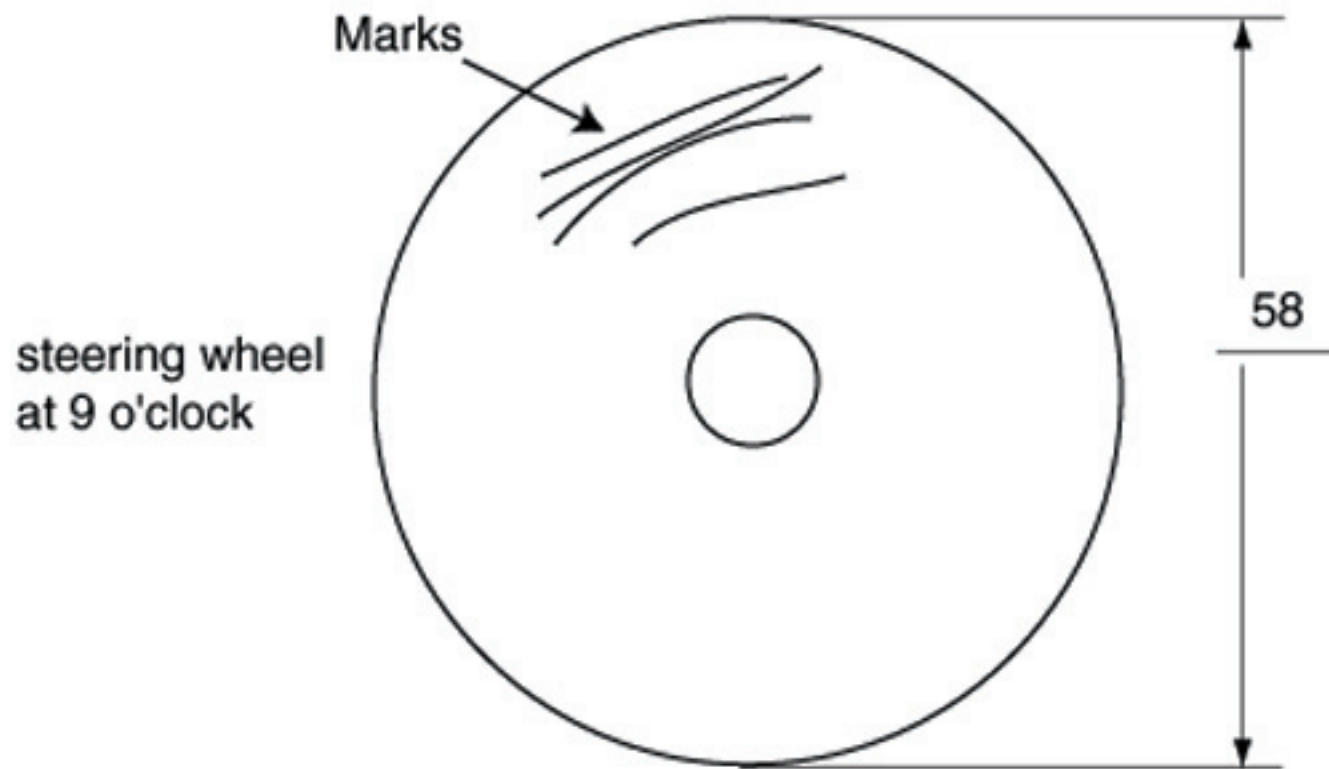
A: steering wheel,
deformation



C = Knee bolster, right side - dent

B = Knee bolster, left side - dent

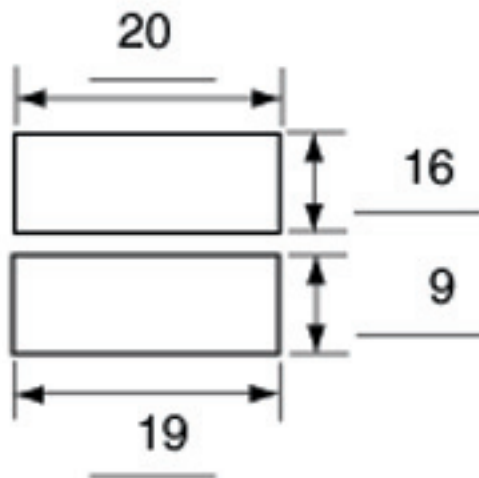
Driver Airbag



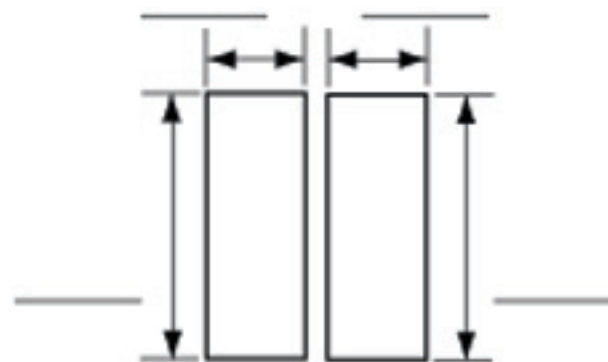
Vents: ☒ Y ☐ N
if yes, how many: 2

Tethers: ☒ Y ☐ N
if yes, how many: 1

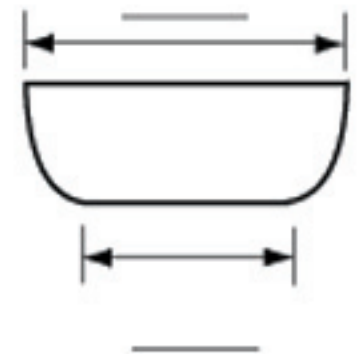
Driver Airbag Doors



H-Pattern



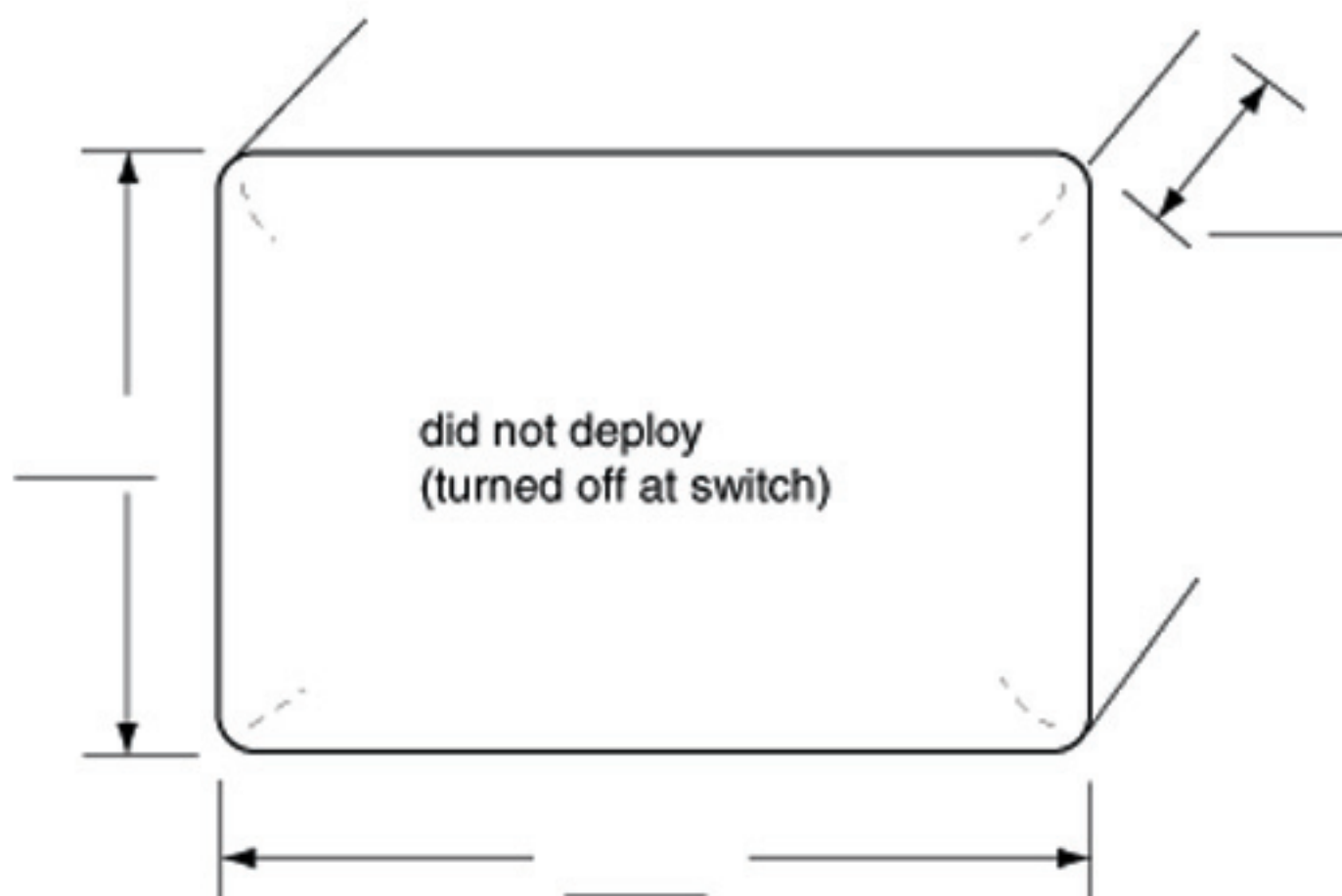
I-Pattern



Single Door

Bottom pushed behind wheel hub

Passenger Airbag



Vents: Y N

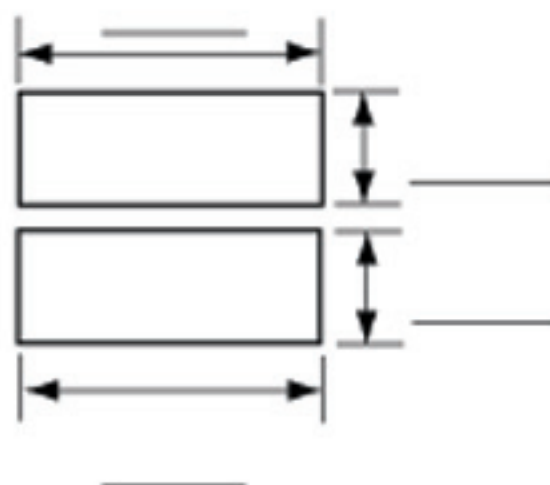
if yes, how many: _____

Tethers: Y N

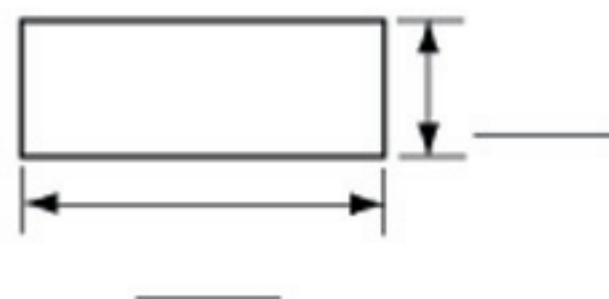
if yes, how many: _____

Passenger Airbag Doors

H-Pattern



Single Door



Case # 351: Occupant # 1; Injury # 1

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	01	Injury #1	more
V2102 — 1st Prob Contact Area	65	Steering wheel	more
V2103 — 2nd Prob Contact Area	87	Air cushion skin "airbag"	more
V2104 — Primary OIC -body Region	08	Head/skull	more
V2105 — Primary OIC -aspect	23	Whole region	more
V2106 — Primary OIC -lesion	11	Concussion	more
V2107 — Primary OIC -system/Organ	02	Brain	more
V2108 — Primary OIC -severity	2	Moderate	more
V2109 — Primary OIC	HWKB2	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	—	—	—

Case # 351: Occupant # 1; Injury # 2

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	02	Injury #2	more
V2102 — 1st Prob Contact Area	65	Steering wheel	more
V2103 — 2nd Prob Contact Area	87	Air cushion skin "airbag"	more
V2104 — Primary OIC -body Region	06	Face	more
V2105 — Primary OIC -aspect	18	Right	more
V2106 — Primary OIC -lesion	06	Fracture	more
V2107 — Primary OIC -system/Organ	19	Skeletal	more
V2108 — Primary OIC -severity	2	Moderate	more
V2109 — Primary OIC	FRFS2	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	—	—	—

Case # 351: Occupant # 1; Injury # 3

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	03	Injury #3	more
V2102 — 1st Prob Contact Area	65	Steering wheel	more
V2103 — 2nd Prob Contact Area	87	Air cushion skin "airbag"	more
V2104 — Primary OIC -body Region	06	Face	more
V2105 — Primary OIC -aspect	09	Inferior/lower	more
V2106 — Primary OIC -lesion	12	Laceration	more
V2107 — Primary OIC -system/Organ	09	Integumentary	more
V2108 — Primary OIC -severity	1	Minor	more
V2109 — Primary OIC	FIL11	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	—	—	—

Case # 351: Occupant # 1; Injury # 4

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	04	Injury #4	more
V2102 — 1st Prob Contact Area	87	Air cushion skin "airbag"	more
V2103 — 2nd Prob Contact Area	00	No Contact/not applicable	more
V2104 — Primary OIC -body Region	06	Face	more
V2105 — Primary OIC -aspect	09	Inferior/lower	more
V2106 — Primary OIC -lesion	12	Laceration	more
V2107 — Primary OIC -system/Organ	09	Integumentary	more
V2108 — Primary OIC -severity	1	Minor	more
V2109 — Primary OIC	FIL11	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	—	—	—

Case # 351: Occupant # 1; Injury # 5

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	05	Injury #5	more
V2102 — 1st Prob Contact Area	34	Restraint system webbing	more
V2103 — 2nd Prob Contact Area	00	No Contact/not applicable	more
V2104 — Primary OIC -body Region	03	Chest	more
V2105 — Primary OIC -aspect	18	Right	more
V2106 — Primary OIC -lesion	03	Contusion	more
V2107 — Primary OIC -system/Organ	16	Pulmonary/lungs	more
V2108 — Primary OIC -severity	3	Serious	more
V2109 — Primary OIC	CRCP3	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	—	—	—

Case # 351: Occupant # 1; Injury # 6

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	06	Injury #6	more
V2102 — 1st Prob Contact Area	34	Restraint system webbing	more
V2103 — 2nd Prob Contact Area	00	No Contact/not applicable	more
V2104 — Primary OIC -body Region	13	Abdomen	more
V2105 — Primary OIC -aspect	23	Whole region	more
V2106 — Primary OIC -lesion	01	Abrasion	more
V2107 — Primary OIC -system/Organ	09	Integumentary	more
V2108 — Primary OIC -severity	1	Minor	more
V2109 — Primary OIC	MWAI1	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	—	—	—

Case # 351: Occupant # 1; Injury # 7

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	07	Injury #7	more
V2102 — 1st Prob Contact Area	34	Restraint system webbing	more
V2103 — 2nd Prob Contact Area	00	No Contact/not applicable	more
V2104 — Primary OIC -body Region	13	Abdomen	more
V2105 — Primary OIC -aspect	09	Inferior/lower	more
V2106 — Primary OIC -lesion	12	Laceration	more
V2107 — Primary OIC -system/Organ	04	Digestive	more
V2108 — Primary OIC -severity	3	Serious	more
V2109 — Primary OIC	MILD3	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	—	—	—

Case # 351: Occupant # 1; Injury # 8

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	08	Injury #8	more
V2102 — 1st Prob Contact Area	48	Knee restraint	more
V2103 — 2nd Prob Contact Area	00	No Contact/not applicable	more
V2104 — Primary OIC -body Region	11	Knee	more
V2105 — Primary OIC -aspect	12	Left	more
V2106 — Primary OIC -lesion	03	Contusion	more
V2107 — Primary OIC -system/Organ	09	Integumentary	more
V2108 — Primary OIC -severity	1	Minor	more
V2109 — Primary OIC	KLCI1	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	—	—	—

Case # 351: Occupant # 1; Injury # 9

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	09	Injury #9	more
V2102 — 1st Prob Contact Area	48	Knee restraint	more
V2103 — 2nd Prob Contact Area	00	No Contact/not applicable	more
V2104 — Primary OIC -body Region	11	Knee	more
V2105 — Primary OIC -aspect	18	Right	more
V2106 — Primary OIC -lesion	03	Contusion	more
V2107 — Primary OIC -system/Organ	09	Integumentary	more
V2108 — Primary OIC -severity	1	Minor	more
V2109 — Primary OIC	KRCI1	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	—	—	—

Case # 351: Occupant # 1; Injury #10

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	10	Injury #10	more
V2102 — 1st Prob Contact Area	40	Floor	more
V2103 — 2nd Prob Contact Area	00	No Contact/not applicable	more
V2104 — Primary OIC -body Region	17	Ankle/foot	more
V2105 — Primary OIC -aspect	12	Left	more
V2106 — Primary OIC -lesion	06	Fracture	more
V2107 — Primary OIC -system/Organ	19	Skeletal	more
V2108 — Primary OIC -severity	2	Moderate	more
V2109 — Primary OIC	QLFS2	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	—	—	—

Case # 351: Occupant # 1

Variable Number and Name	Code Value	Code Description	Other Options
V2001 — Occupant Number	01	Occupant #1	more
V2002 — Occupant Role At 1st Impact	1	Motor vehicle driver	more
V2003 — Occupant Position -row	1	1st row	more
V2004 — Occupant Position -lateral	1	Left	more
V2005 — Occupant Position -posture	10	Sitting on seat	more
V2006 — Occupant Age In Years	30	—	—
V2007 — Occupant Age In Months	25	25 months or older	more
V2008 — Occupant Mass	111 kg	—	—
V2009 — Occupant Height	183 cm	—	—
V2010 — Occupant Sex	1	Male	more
V2011 — Occupant Treatment/Mortality	04	Hospitalized over 24 hrs or for significant treatment	more
V2012 — Injury Severity Score	22	—	—
V2013 — Non-impact Med Condition	0	None	more
V2014 — Police Injury Severity	2	B - Non-incapacitating Injury	more
V2015 — Active Restraint System	3	Both lap belt and shoulder harness	more
V2016 — Active Restraint Usage	3	Both lap belt and shoulder harness	more
V2017 — Passive Restraint System	1	Air bag installed	more
V2018 — Passive Restraint Usage	2	Air bag deployed	more
V2019 — Child Seat Type	88	Not applicable (adult or older child)	more
V2020 — Occupant Ejection Degree	0	None	more
V2021 — Occupant Ejection Area	98	Not applicable (not ejected)	more
V2022 — Highest OIC Severity	3	Serious	more

V2023 — Head Restraint Available	1	Equipped	more
V2024 — Occupant Eyewear	9	Unknown	more
V2025 — Source of Occupant Info	1	Hospital	more

































WE BUY YOUR
SCRAP METAL































F-150























**AIR BAG
WARNING**
FLIP VISOR OVER

















































